Forestry

CONTENTS

PROCEEDINGS—American Association of Economic Entomologists, The Sixtieth Annual Meeting ..... (Feb.) 177
Cotton States Branch ..... (Oct.) 861
Eastern Branch, Twentieth Annual Meeting ..... (Feb.) 174
North-Central States Branch ..... (Oct.) 863
Pacific Slope Branch ..... (Oct.) 866
MEETINGS:
The Rocky Mountain Conference of Entomologists ..... (Feb.) 171
Twenty-third Annual Western Cooperative Spray Conference ..... (Feb.) 171
OFFICIAL ROSTER ..... (Feb.) 194

ADAMS, J. ALFRED, *Cyclocephala borealis* as a Turf Pest Associated with the Japanese Beetle in New York ..... (Aug.) 626
ADAMS, J. ALFRED, The Oriental Beetle as a Turf Pest Associated with the Japanese Beetle in New York ..... (April) 366
AKESSON, N. B., see A. E. MICHELBACHER ..... (Aug.) 666
ALLEN, H. W. and W. P. YETTER, *Bassus diversus*, an Oriental Fruit Moth Parasite Established in the United States ..... (Sci. Note, June) 540
ALLEN, H. W., A Japanese Weevil Appears in Damaging Numbers ..... (Sci. Note, June) 540
ALLEN, T. C., see H. J. BALL (Sci. Note, April) 394
ALLEN, WILLIAM W., see RAY F. SMITH (June) 487
ANDERSON, LAUREN D. and JAMES W. HASHE, Control of Corn Earworm on Sweet Corn in Southern California ..... (Dec.) 933
ANDERSON, L. D., see R. C. DICKSON ..... (Oct.) 770
ANTHON, EDWARD W., Field Experiments for Control of Shot-Hole Borer (Sci. Note, Oct.) 854
APPLE, J. W. and G. C. DECKER, Insecticidal Dust Formulations for Corn Borer Control ..... (Feb.) 88
ARCHER, ANDREW, see A. F. SIEVERS ..... (Sci. Note, June) 549
ARMITAGE, H. M., The Oriental Fruit Fly from the Mainland Viewpoint ..... (Oct.) 713
ARANT, F. S., see W. G. EDEN ..... (Dec.) 976
ASQUITH, DEAN, European Fruit Lecanium on Peach Following Applications of DDT ..... (Sci. Note, Feb.) 147
ASQUITH, DEAN, Two Generations of European Fruit Lecanium in Southern Pennsylvania ..... (Sci. Note, Oct.) 853
ASQUITH, DEAN, Oils in Dormant Sprays to Control European Fruit Lecanium and Terrapin Scale on Peach ..... (Aug.) 624

BABCOCK, O. G., see E. W. LAAKE ..... (Sci. Note, Aug.) 684
BACON, O. G., see A. E. MICHELBACHER ..... (Sci. Note, Oct.) 849
BAILEY, JOHN S., WILLIAM B. ESSELEN, JR., and ELLSWORTH H. WHEELER, Off-Flavors of Peaches Sprayed with Benzene Hexachloride ..... (Oct.) 774
BAKER, W. L., Studies on the Transmission of the Virus Causing Phloem Necrosis of American Elm, With Notes on the Biology of Its Insect Vector ..... (Oct.) 729
BALL, H. J. and T. C. ALLEN, Insecticidal Tests of Some New Organic Phosphates ..... (Sci. Note, April) 394
BALL, W. H., see ALFRED H. YEOMANS (Aug.) 591
BANKOWSKI, R. A., see D. P. FURMAN (Dec.) 980
BARBER, GEORGE W. and JOHN B. SCHMITT, Further Studies on Resistance to DDT in the House Fly ..... (April) 287
BARBER, GEORGE W. and JOHN B. SCHMITT, A Line of Houseflies Resistant to Methoxychlor ..... (Sci. Note, Oct.) 844
BARBER, GEORGE W., see PHILIP GRANETT ..... (April) 281
BARNES, DWIGHT F. and E. M. STAFFORD, Control of the Fig Scale in California (Feb.) 48
BEARD, RAIMON L., Species-Specificity of Toxicants as Related to Route of Administration ..... (April) 292
BEARD, RAIMON L., Time of Evaluation and the Dosage-Response Curve ..... (Aug.) 579
BEER, ROBERT E., see A. EARL PRITCHARD ..... (April) 372
BEER, R. E., see A. E. PRITCHARD ..... (Sci. Note, Oct.) 845
BENJAMIN, D. M. and A. C. HODSON, A New Bait Trap Collection Record for *Rhagoletis completa* ..... (Sci. Note, Aug.) 707
BLANTON, F. S., C. N. HUSMAN, B. V. TRAVIS and C. S. WILSON, Control of Alaskan Mosquito Adults by Aerial Sprays ..... (Feb.) 106
BOBB, M. L., Hibernation of the Plum Curculio in Virginia ..... (Feb.) 19
BOBB, M. L., Sprays for Control of the Peach Tree Borer ..... (April) 343
BOHART, GEORGE E. and F. V. LIEBERMAN, Effect of an Experimental Field Application of DDT Dust on *Nomia melanderi* ..... (June) 519
BONDY, FLOYD F., see L. C. FIFE ..... (Sci. Note, Aug.) 682
BONDY, FLOYD F., see R. L. WALKER ..... (Sci. Note, Aug.) 685
BORDEN, ARTHUR D., see DEWEY K. RASKI ..... (Oct.) 754
BORDEN, ARTHUR D., see HAROLD F. MADSEN ..... (Dec.) 915
BOTTGER, G. T. and S. I. GERTLER, Comparative Toxicity to Certain Insects of DDT, Its Bromine and Fluorine Analogs, and Gamma Benzene Hexachloride ..... (Aug.) 611
BOUDREAUX, H. BRUCE, A Technique of Mounting Aphids and Other Soft-Bodied Insects on Slides ..... (Sci. Note, Oct.) 846
BOWERY, THOMAS G., see PHILIP GRANETT ..... (April) 281
BRANNON, LLOYD W., Tests of Some New Insecticides to Control Mexican Bean Beetle ..... (Dec.) 928
BREAKEY, E. P., see CARL JOHANSEN ..... (Sci. Note, June) 543
BREAKEY, E. P., see CARL JOHANSEN ..... (Sci. Note, June) 562
BREAKEY, E. P., see CARL JOHANSEN ..... (Dec.) 911
BRINDLEY, TOM A., see FRANK G. HINMAN ..... (Oct.) 746
BRINDLEY, T. A., see ROY F. CAMPBELL ..... (Obituary, Feb.) 165
BRONSON, T. E. and P. V. STONE, Field Ex-

periments with Hexaethyl Tetraphosphate for Cabbage Aphid Control.....(Sci. Note, Feb.) 156
BRONSON, T. E., J. E. DUDLEY, JR., and R. KEITH CHAPMAN, Liquefied-Gas Aerosols for Pea Aphid Control.....(Aug.) 661
BROWER, A. E., The Beech Scale and Beech Bark Disease in Acadia National Park.....(April) 226
BROWN, A. W. A., The Relation to Toxicity of Boiling Point of Low Vapour Pressure Fumigants.....(Sci. Note, April) 399
BRUNDRETT, H. M., see E. W. LAAKE.....(Sci. Note, Aug.) 684
BURGESS, A. F. and HARVEY L. SWEETMAN, The Residual Property of DDT as Influenced by Temperature and Moisture.(June) 420
BURNETT, JR., DOUGLASS, see CARROLL N. SMITH.....(June) 439
BUTLER, GEORGE D., JR. and L. A. CARRUTH, Corn Earworm Control with DDT and Other Insecticides.....(June) 457
BUTLER, GEORGE D., JR. and L. A. CARRUTH, Corn Earworm Control with Insecticidal Dusts on Western Long Island, 1949.(Dec.) 930
BUTLER, G. D., see F. R. SHAW.....(Sci. Note, Oct.) 855
BYARS, L. F., The Mexican Leaf-Cutting Ant in the United States.....(Sci. Note, June) 545
BYNUM, E. K., J. W. INGRAM and L. J. CHARPENTIER, Control of Wireworms Attacking Sugar Cane in Louisiana.....(Sci. Note, June) 556

CALDWELL, ARCHIBALD H., Mass Rearing of Drosophila.....(Sci. Note, Aug.) 707
CAMPBELL, ROY E. and T. A. BRINDLEY, Andrew Olof Larson (1887–1948).....(Obituary, Feb.) 165
CAMPBELL, ROY E., see J. WILCOX.....(Dec.) 920
CAREY, MARGARET M., D. E. H. FREAR and L. E. DILLS, Relation of Chemical Constitution of a Series of Esters of Picolinic Acid to Toxicity as Insecticides.....(Oct.) 798
CARLSON, E. C., see W. H. LANGE, JR..(Dec.) 942
CARLSON, F. W. and E. J. NEWCOMER, Control of Pear Psylla in the Pacific Northwest.....(April) 338
CARPENTER, STANLEY J., Collection of a Fourth Instar Larva of *Anopheles albimanus* at Boca Raton Field in 1944.....(Sci. Note, Oct.) 834
CARRUTH, L. A., see GEORGE D. BUTLER, JR.....(June) 457
CARRUTH, L. A., see GEORGE D. BUTLER, JR.....(Dec.) 930
CARSON, N. B. and GAINES W. EDDY, Preliminary Evaluation of Materials as Synergists with Pyrethrum Against the Body Louse.....(Sci. Note, Aug.) 694
CARTER, R. H., R. W. WELLS, R. D. RADELEFF, CHARLES L. SMITH, P. E. HUBANKS and H. D. MANN, The Chlorinated Hydrocarbon Content of Milk from Cattle Sprayed for Control of Horn Flies..(Feb.) 116
CARTER, R. H., P. E. HUBANKS, H. D. MANN, FLOYD F. SMITH, P. G. PIQUETT, J. C. SHAW and L. P. DITMAN, DDT Content of Milk from Cows Fed Pea Vine Silage Containing DDT Residues.....(Feb.) 119
CARTER, R. H. and H. D. MANN, The DDT Content of Milk from a Cow Sprayed with DDT.....(Sci. Note, Aug.) 708
CARTER, WALTER, Insect Notes from South America with Special Reference to *Pseudococcus brevipes* and Mealybug Wilt...(Oct.) 761
CHAMBERLIN, F. S., Experiments to Control Aphids on Shade-Grown Tobacco.....(Sci. Note, June) 544
CHAMBERLIN, T. R. and J. T. MEDLER, Tests of Insecticides Against the Meadow Spittlebug on Seed Alfalfa.....(Aug.) 653
CHAMBERLIN, T. R., see J. T. MEDLER.(April) 239
CHANDLER, S. C., Chlordan and Benzene Hexachloride for control of Plum Curculio on Peach.....(June) 514
CHAPMAN, P. J., see E. H. GLASS.....(Feb.) 29
CHAPMAN, P. J. and G. W. PEARCE, Susceptibility of the Winter Eggs of the European Red Mite to Petroleum Oils and Dinitro Compounds.....(Feb.) 44
CHAPMAN, R. KEITH, see T. E. BRONSON.....(Aug.) 661
CHARPENTIER, L. J., see E. K. BYNUM.....(Sci. Note, June) 556
CHISHOLM, R. D., R. H. NELSON and ELMER E. FLECK, The Toxicity of DDT Deposits as Influenced by Sunlight....(Sci. Note. Feb.) 154
CHISHOLM, R. D., see A. C. MASON....(Aug.) 639
CHRIST, E. G. and B. F. DRIGGERS, Strawberry Weevil Control with New Organic Insecticides.....(Sci. Note, June) 559
CLARK, J. C., see CARROLL N. SMITH..(Oct.) 716
COCHRAN, JAMES H., Comparative Effectiveness of Various Organic Insecticides Against the Oriental Fruit Moth.....(April) 348
COLE, MOSES M. and CARROLL N. SMITH, Tick-Repellent Investigations at Bull's Island, C. C., 1948.....(Dec.) 880
COLE, M. M., see CARROLL N. SMITH..(Oct.) 716
COLLINS, D. L., R. V. NARDY and R. D. GLASGOW, Some Host Relationships of Long Island Ticks.....(Feb.) 110
COLLINS, D. L., R. V. NARDY and R. D. GLASGOW, Further Notes on the Host Relationships of Ticks on Long Island.....(Sci. Note, Feb.) 159
CONKLIN, J. G. and G. L. WALKER, Parathion in Early Spring Applications for Bud Moth Control.....(Sci. Note, Feb.) 153
CONNOLA, DONALD P., see PHILIP GRANETT.....(April) 281
COPE, A. B., see C. M. GJULLIN.....(Feb.) 100
COTTON, R. T. and J. C. FRANKENFELD, Silica Aerogel for Protecting Stored Seed or Milled Cereal Products from Insects.....(Sci. Note, June) 553
COX, JAMES A., Control of Cherry Fruit Flies.....(Sci. Note, Aug.) 702
COX, JAMES A., Control of Plum Curculio on Prunes.....(Aug.) 632
COX, JAMES A., Field Experiments for Control of the Grape Berry Moth.....(June) 507
CRAWFORD, C. W., Insecticides and the Food Law.....(Editorial, June) 564
CROSIER, W. F., see E. H. GLASS.....(Aug.) 646
CROSS, H. F. and RICHARD FYE, The Use of Sleeves for Evaluating Acaricides for Clothing Treatments.....(Dec.) 878
CUFF, RAY L., see D. E. HOWELL.....(Aug.) 644
CULLINAN, F. P., Some New Insecticides—Their Effect on Plants and Soils... (April) 387

CUTRIGHT, C. R. and T. H. PARKS, Combating Periodical Cicada with Insecticides. . . . . (April) 359
CUTRIGHT, C. R., The Use of Acaricides in Concentrate Form . . . . . (April) 363

DAHM, PAUL A. and J. E. PANKASKIE, A Biological Assay Method for Determining Aldrin . . . . . (Sci. Note, Dec.) 987
DARLEY, M. M., see B. F. DRIGGERS. . (April) 330
DAVIS, A. C., see W. A. RAWLINS. . . . . (April) 326
DAVIS, EDWARD D., see BRYANT E. REES. . . . . (Aug.) 586
DEAN, F. P., see E. J. NEWCOMER. . . . . (Sci. Note, Oct.) 857
DEAN, GEORGE A., Edward Guerrant Kelly (1880–1949) . . . . . (Obituary, Feb.) 162
DEAN, H. A., see J. C. GAINES. . . . . (June) 429
DEAN, H. A., see J. C. GAINES. . . . . (Oct.) 795
DEAN, H. A., see J. C. GAINES. . . . . (Dec.) 956
DEAN, H. O., L. H. PATCH and R. O. SNELLING, Loss in Yield of Dent Corn Infested with the August Generation of the European Corn Borer . . . . . (Feb.) 81
DECKER, G. C., see J. W. APPLE. . . . . (Feb.) 88
DEBACH, PAUL, E. J. DIETRICK and C. A. FLESCHNER, A New Technique for Evaluating the Efficiency of Entomophagous Insects in the Field . . . . . (Sci. Note, June) 546
DEBACH, PAUL, C. A. FLESCHNER and E. J. DIETRICK, Population Studies of the Long-Tailed Mealybug and Its Natural Enemies on Citrus Trees in Southern California. . . . . (Oct.) 777
DECKER, GEORGE C., see C. W. KEARNS (Feb.) 127
DECKER, GEORGE C., see CARL J. WEINMAN. . . . . (Feb.) 135
DENNING, D. G., Dusting for Sheep Tick Control . . . . . (Sci. Note, Oct.) 852
DEONIER, C. C., W. N. SULLIVAN, EDWARD NOTTINGHAM and ARTHUR W. LINDQUIST, Control of *Anopheles* Mosquitoes with Coarse and Fine DDT and Other Insecticides . . . . . (June) 447
DIETRICK, E. J., see PAUL DEBACH. . . . . (Sci. Note, June) 546
DIETRICK, E. J., see PAUL DEBACH. . . . (Oct.) 777
DICKSON, R. C., J. E. SWIFT, L. D. ANDERSON and JOHN T. MIDDLETON, Insect Vectors of Cantaloupe Mosaic in California's Desert Valleys . . . . . (Oct.) 770
DILLS, L. E., see MARGARET M. CAREY. (Oct.) 798
DITMAN, L. P., see R. H. CARTER. . . . . (Feb.) 119
DOGGER, J. R. and J. H. LILLY, Seed Treatment as a Means of Reducing Wireworm Damage to Corn . . . . . (Aug.) 663
DOMINICK, C. B., Aphids on Flue-Cured Tobacco . . . . . (Feb.) 59
DOMINICK, C. B., New Insecticides for Tobacco Flea Beetle Control. (Sci. Note, Feb.) 148
DOUGLAS, JAMES R. and DEANE P. FURMAN, Comparative Evaluation of Rotenone Formulations for Cattle Grub Control. . . . . (Dec.) 884
DOUGLAS, J. R., see D. P. FURMAN. . . . . (Sci. Note, Oct.) 842
DOUGLAS, J. R. and F. H. SHIRCK, Experiments for Control of Onion Thrips. . (Feb.) 68
DOUTT, RICHARD L. and KENNETH S. HAGEN, Periodic Colonization of *Chrysopa californica* as a Possible Control of Mealybugs. . . . . (Sci. Note, June) 560
DOUTT, RICHARD L., The Spermatozoon as a Diagnostic Tool in Mealybug Taxonomy . . . . . (Sci. Note, Oct.) 835
DOVE, W. E., John B. Hull (1906–1949). . . . . (Obituary, Oct.) 869
DRIGGERS, B. F. and M. M. DARLEY, Control of Plum Curculio in Peaches with Benzene Hexachloride, Parathion Chlordan and Lead Arsenate . . . . . (April) 330
DRIGGERS, B. F. and L. G. MERRILL, Oriental Fruit Moth Control with DDT and Parathion . . . . . (April) 351
DRIGGERS, B. F., see E. G. CHRIST. . . . . (Sci. Note, June) 559
DUCHANOIS, F. R., see C. M. GJULLIN. (Feb.) 100
DUDLEY, J. E., JR., see T. E. BRONSON. (Aug.) 661

EADS, RICHARD B., Recent Collections of Colorado Fleas . . . . . (Sci. Note, Feb.) 144
EADS, RICHARD B., A Second Record of *Lipoptena mazamae* from Cattle. . . . . (Sci. Note, Feb.) 158
ECKERT, J. F., Determining Toxicity of Agricultural Chemicals to Honey Bees. . (April) 261
EDDY, GAINES W. and O. H. GRAHAM, Tests to Control Horn Flies with New Insecticides . . . . . (April) 265
EDDY, GAINES W. and W. S. MCGREGOR, Residual Action of Organic Insecticides Against Stables Flies. . . . . (Sci. Note, June) 547
EDDY, GAINES W. and W. S. MCGREGOR, Use of White Mice for Testing Materials Used as Repellents and Toxicants for Stable Flies. . . . . (June) 461
EDDY, GAINES W., see N. B. CARSON. . . . . (Sci. Note, Aug.) 694
EDDY, GAINES W., see D. E. HOWELL. . (Aug.) 644
EDEN, W. G. and F. S. ARANT, Control of the Imported Fire Ant in Albama. . . . . (Dec.) 976
ELMORE, JOHN C., Hibernation and Host-Plant Studies of the Mexican Bean Beetle in California . . . . . (June) 464
ELMORE, JOHN C., Thrips Injury to Onions Grown for Seed . . . . . (Oct.) 756
ESSELEN, WILLIAM B., JR., see JOHN S. BAILEY. . . . . (Oct.) 774
EVANSON, JAMES, see LOYD L. STITT. . . (Aug.) 614
EYER, J. R. and E. J. O'NEAL, Processing of Aromatic Chemicals as Solid Baits for Codling Moth . . . . . (Sci. Note, Oct.) 850
EYER, JOHN R., Theodore Dru Allison Cockerell (1866–1948). . . . (Obituary, Feb.) 166

FAIRCHILD, H. E., ROBERT A. HOFFMAN and ARTHUR W. LINDQUIST, A Comparison of the Chlorinated Hydrocarbon Insecticides for Control of the Sheep Tick. . . . . (June) 410
FERGUSON, WILLIAM C. and C. W. KEARNS, The Metabolism of DDT in the Large Milkweed Bug . . . . . (Oct.) 810
FERRER-DELGADO, ROBERTO, see HAROLD K. PLANK. . . . . (Dec.) 963
FIFE, L. C., R. L. WALKER and FLOYD F. BONDY, Boll Weevil Control with Several Organic Insecticides during 1948. . . . . (Sci. Note, Aug.) 682
FIFE, L. C., see R. L. WALKER. . . . . (Sci. Note, Aug.) 685
FILMER, R. S., see J. M. GINSBURG. . . . (Aug.) 602

FISHER, F. E., see J. T. GRIFFITHS, JR. . . (Oct.) 829
FLANDERS, S. E., see J. LINSLEY GRESSITT . . . . . (Sci. Note, Feb.) 150
FLANDERS, STANLEY E., see HARRY S. SMITH . . . . . (Sci. Note, Dec.) 995
FLECK, ELMER E., see R. D. CHISHOLM . . . . . (Sci. Note, Feb.) 154
FLESCHNER, C. A., see PAUL DEBACH . . . . . (Sci. Note, June) 546
FLESCHNER, C. A., see PAUL DEBACH . . (Oct.) 777
FLOYD, E. H., Control of the Sand Wireworm in Louisiana . . . . . (Dec.) 900
FLOYD, E. H. and C. E. SMITH, Control of the Southern Corn Rootworm and the Seed-Corn Maggot in Louisiana . . . . . (Dec.) 908
FRANKENFELD, J. C., see R. T. COTTON . . . . . (Sci. Note, June) 553
FRANKLIN, HENRY J., A New Cutworm on Cranberry . . . . . (Sci. Note, Dec.) 986
FREAR, D. E. H., see MARGARET M. CAREY . . . . . (Oct.) 798
FROST, S. W., The Diamondback Moth in Pennsylvania . . . . . (Sci. Note, Aug.) 681
FROST, S. W., Flea Beetles Attacking Cruciferae . . . . . (Sci. Note, Feb.) 144
FULTON, R. A., O. C. MCBRIDE and W. N. Sullivan, Toxicity of Residues and Carbon Dioxide-Propelled Insecticides . . . . . (Feb.) 123
FURMAN, D. P. and R. A. BANKOWSKI, Absorption of Benzene Hexachloride in Poultry . . . . . (Dec.) 980
FURMAN, D. P., J. R. DOUGLAS and K. G. MCKAY, Cattle Grub Distribution in California . . . . . (Sci. Note, Oct.) 842
FURMAN, DEANE P., see JAMES R. DOUGLAS . . . . . (Dec.) 884
FYE, RICHARD, see H. F. CROSS . . . . . (Dec.) 878

GAHAN, JAMES B., see ROBERT L. PEFFLY . . . . . (Feb.) 113
GAHAN, J. B., see W. V. KING . . . . . (June) 405
GAINES, J. C. and H. A. DEAN, Insecticides Tests for Boll Weevil Control During 1948. . . . . (Oct.) 795
GAINES, J. C., see J. S. ROUSSEL . . . . . (Sci. Note, June) 551
GAINES, J. C., see WM. INGLINSKY, JR. . . . . (Sci. Note, Aug.) 703
GAINES, J. C. and H. A. DEAN, Comparison of Sprays and Dusts for Grasshopper Control. . . . . (Dec.) 956
GAINES, J. C. and H. A. DEAN, Effect of Temperature and Humidity on the Toxicity of Certain Insecticides . . . . . (June) 429
GARMAN, PHILIP and B. H. KENNEDY, Effect of Soil Fertilization on the Rate of Reproduction of the Two-Spotted Spider Mite. . . . . (Sci. Note, Feb.) 157
GARRISON, G. L., see M. T. YOUNG . . . . . (Sci. Note, Dec.) 993
GATES, DELL E., see CHARLES L. SMITH . . . . . (Sci. Note, Oct.) 847
GAUL, ALBRO T., Habits and Control of the Black Widow Spider . . . . . (Sci. Note, Aug.) 700
GEIB, A. F., see GORDON F. SMITH . . . . . (Sci. Note, Oct.) 835
GERRY, BERTRAM I., Control of a Salt Marsh Tabanid by Means of Residual DDT-Oil Spray . . . . . (Dec.) 888
GERSDORFF, W. A., Toxicity of House Flies of Synthetic Compounds of the Pyrethrin Type in Relation to Chemical Structure . . . (June) 532
GERSDORFF, W. A., see R. H. NELSON . . . . . (Sci. Note, Feb.) 158
GERTLER, S. I., see E. H. SIEGLER . . . . . (Sci. Note, Feb.) 151
GERTLER, S. I., see R. H. NELSON . . . . . (Sci. Note, Feb.) 158
GERTLER, S. I., see G. T. BOTTGER . . . . (Aug.) 611
GILBERT, ENGEL, GEO S. LANGFORD and R. H. VINCENT, Automatic Traps for Klling Japanese Beetles . . . . . (June) 537
GILBERT, ENGEL, see GEORGE S. LANGFORD . . . . . (Sci. Note, Feb.) 146
GILLOGLY, L. R., Interference of Sulphur with the Bioassay Dip Test . . . . (Sci. Note, Dec.) 983
GINSBURG, J. M., Acaricidal Properties of Hexachlorophenol . . . . . (Sci. Note, Oct.) 839
GINSBURG, J. M., R. S. FILMER, J. P. REED and A. R. PATERSON, Recovery of Parathion, DDT and Certain Analogs of Dichlorodiphenyl-Dicholorethane from Treated Crops . . . . . (Aug.) 602
GJULLIN, C. M., D. A. SLEEPER and C. N. HUSMAN, Control of Black Fly Larvae in Alaskan Streams by Aerial Applications of DDT . . . . . (Sci. Note, April) 392
GJULLIN, C. M., A. B. COPE, B. F. QUISENBERRY and F. R. DUCHANOIS, The Effect of Some Insecticides on Black Fly Larvae in Alaskan Streams . . . . . (Feb.) 100
GJULLIN, C. M., Laboratory Tests of Various New Insecticides Against The Sheep Tick . . . . . (Sci. Note, Dec.) 984
GLASGOW, R. D., see D. L. COLLINS . . . (Feb.) 110
GLASGOW, R. D., see D. L. COLLINS . . . . . (Sci. Note, Feb.) 159
GLASS, E. H. and P. J. CHAPMAN, Red-Banded Leaf Roller Problem in New York. . . . . (Feb.) 29
GLASS, E. H. and W. F. CROSIER, The Viability of Seeds Fumigated with an Acrylonitrile-Carbon Textrachloride Mixture . . . . . (Aug.) 646
GODDIN, A. H., see ELTON J. HANSENS . . . . . (Sci. Note, Oct.) 843
GRAHAM, CASTILLO, Control of the Red-Banded Leaf Roller . . . . . (April) 354
GRAHAM, OWEN H., An Attempt to Protect Cattle from Grub Infestation by Use of Insecticides . . . . . (Sci. Note, Oct.) 837
GRAHAM, O. H., see GAINES W. EDDY . . (April) 265
GRANETT, PHILIP, HARRY L. HAYNES, DONALD P. CONNOLA, THOMAS G. BOWERY and GEORGE W. BARBER, Two Butoxypolypropylene Glycol Compounds as Fly Repellents for Livestock . . . . . (April) 281
GREENWOOD, D. E. and R. N. HOFMASTER, Corn Earworm Control Studies in Virginia . . . . . (Aug.) 675
GREENWOOD, DOUGLAS E., see RICHARD N. HOFMASTER . . . . . (June) 502
GRESSITT, J. LINSLEY and S. E. FLANDERS, New Developments in the Transport of Beneficial Insects . . . . . (Sci. Note, Feb.) 150
GRIFFITHS, J. T., and F. E. FISHER, Residues on Citrus Trees in Florida . . . . . (Oct.) 829
GYRISCO, GEORGE G., L. D. NEWSOM, D. S. MARSHALL and H. H. SCHWARDT, New Advances in Alfalfa Snout Beetle Control . . . . . (April) 311
GYRISCO, GEORGE G., see D. S. MARSHALL . . . . . (April) 315

HÄFLIGER, E., Comparative Toxicity of Various Insecticides to the Honeybee..(June) 523
HAGEN, KENNETH S., see RICHARD L. DOUTT. .....(Sci. Note, June) 560
HAMILTON, DONALD W., Oriental Fruit Moth Control with DDT.....(Feb.) 25
HAMMER, O. H., Triethanolamine Salt of Dinitro-o-sec-butylphenol to Control Certain Pests on Fruit Trees.....(April) 380
HANSENS, ELTON J. and A. H. GODDIN, Reaction of Certain Fly Strains to DDT and Methoxychlor Deposits...(Sci. Note, Oct.) 843
HANSON, CLARENCE H., see W. M. KULASH... .....(Sci. Note, Aug.) 694
HARMSTON, F. C., see HARRY D. PRATT..... .....(June) 414
HASHE, JAMES W., see LAUREN D. ANDERSON .....(Dec.) 933
HASTINGS, ELLSWORTH and J. H. PEPPER, Field Tests with New Insecticides for Control of the Alfalfa Weevil..(Sci. Note, June) 554
HAWKINS, JOHN H. and RICHARD THURSTON, Some Phases of European Corn Borer Control in Central Maine.....(April) 306
HAYDAK, M. H., Causes of Deficiency of Soybean Flour as a Pollen Substitute for Honeybees.....(Aug.) 573
HAYNES, HARRY L., see PHILIP GRANETT.... .....(April) 281
HETRICK, L. A., Some Overlooked Relationships of Southern Pine Beetle.....(June) 466
HILL, ROSCOE E., see MARTIN H. MUMA (Oct.) 822
HILLS, ORIN A. and EDGAR A. TAYLOR, Effect of Curly Top-Infective-Beet Leafhoppers on Cantaloupe Plants.....(Dec.) 897
HINMAN, FRANK G., TOM A. BRINDLEY and RALPH SCHOPP, Hibernation of the Pea Weevil.....(Oct.) 746
HIXSON, EPHRIAM, see MARTIN H. MUMA... .....(April) 231
HIXON, EPHRIAM, see MARTIN H. MUMA.... .....(Oct.) 822
HODSON, A. C., see D. M. BENJAMIN .....(Sci. Note, Aug.) 707
HOFFMAN, ROBERT A., Effect of Several Insecticides on Sheep Tick Pupae..... .....(Sci. Note, Dec.) 984
HOFFMAN, ROBERT A., ADOLPH R. ROTH and ARTHUR W. LINDQUIST, Effect of Air Temperature on the Insecticidal Action of Some Compounds on the Sheep Tick and on Migration of the Sheep Tick on the Animal... .....(Dec.) 893
HOFFMAN, ROBERT A. and ARTHUR W. LINDQUIST, Fumigating Properties of Several New Insecticides.....(June) 436
HOFFMAN, ROBERT A. and ARTHUR W. LINDQUIST, Residues of Several Chlorinated Hydrocarbon Insecticides.....(Dec.) 891
HOFFMAN, ROBERT A., see H. E. FAIRCHILD.. .....(June) 410
HOFMASTER, RICHARD N. and DOUGLAS E. GREENWOOD, Fall Armyworm Control on Forage and Truck Crops.....(June) 502
HOFMASTER, R. N., see D. E. GREENWOOD .....(Aug.) 675
HOSKINS, W. M., Deposit and Residue of Recent Insecticides Resulting from Various Control Practices in California.....(Dec.) 966
HOWE, W. L., Factors Affecting Resistance of Certain Cucurbits to the Squash Borer. .. ..(April) 321
HOWELL, D. E., GAINES, W. EDDY and RAY L. CUFF, Effect on Horse Fly Populations of Aerial Spray Applications to Wooded Areas.....(Aug.) 644
HOWELL, D. E., Piperonyl Formulations as Horse Fly Repellents.....(Sci. Note, April.) 401
HOWLAND, A. F., see J. WILCOX.....(Dec.) 920
HUBANKS, P. E., see R. H. CARTER....(Feb.) 116
HUBANKS, P. E., see R. H. CARTER....(Feb.) 119
HUMMER, R. W., see E. E. KENAGA..... .....(Sci. Note, Dec.) 996
HUNT, RONALD W., The Common Dry-Wood Termite as a Pest.....(Dec.) 959
HUSMAN, C. N., see F. S. BLANTON....(Feb.) 106
HUSMAN, C. N., see C. M. GJULLIN..... .....(Sci. Note, April) 392
HUTSON, RAY, see HERMAN L. KING..... .....(Sci. Note, April) 398

IGLINSKY, WM., JR. and J. C. GAINES, Tests of Insecticides to Control Red Spider Mites .....(Sci. Note, Aug.) 703
INGRAM, J. W., see E. K. BYNUM..... .....(Sci. Note, June) 556

JENKINS, DALE W., A Field Method of Marking Arctic Mosquitoes with Radio Phosphorus.....(Sci. Note, Dec.) 988
JOHANSEN, CARL and E. P. BREAKEY, Accumulated Residues of Insecticides to Control the Orange Tortrix on Red Raspberries.....(Sci, Note, June) 543
JOHANSEN, CARL and E. P. BREAKEY, Control of the Orange Tortrix on Red Raspberries .....(Dec.) 911
JOHANSEN, CARL and E. P. BREAKEY, Insecticides Tested Against the Willamette Mite on Red Raspberries.(Sci. Note, June) 562
JOHNSON, DONALD R., Chemical Treatment of Seed Corn for Control of *Agonoderus comma* .....(Oct.) 801
JONES, ELMER, A., see CARROLL N. SMITH... .....(Oct.) 716
JONES, HOWARD A., see B. V. TRAVIS..... .....(Sci. Note, Aug.) 686
JONES, IVAN D., see CLYDE F. SMITH..(Aug.) 618
JAYNES, H. A. and C. F. SPEERS, Biological and Ecological Studies of the Spruce Budworm.....(April) 221

KARTMAN, LEO, The Need for an Annual Review of Entomology.....(Editorial, Oct.) 859
KEARNS, C. W., CARL J. WEINMAN and GEORGE C. DECKER, Insecticidal Properties of Some New Chlorinated Organic Compounds.....(Feb.) 127
KEARNS, C. W., see WILLIAM C. FERGUSON.. .....(Oct.) 810
KENAGA, E. E., The Toxicity of Some Bis (Substituted phenoxy) Methanes to the Two-Spotted Spider Mite and Mexican Bean Beetle.....(Sci. Note, Dec.) 998
KENAGA, E. E., The Toxicity of Some Substituted Phenyl Benzoates to the Two-Spotted Spider Mite and Mexican Bean Beetle.....(Sci. Note, Dec.) 999
KENAGA, E. E. and R. W. HUMMER, The Toxicity of Some Substituted Phenyl Benzene sulfonates to the Two-Spotted Spider Mite and Mexican Bean Beetle..... .....(Sci. Note. Dec.) 996

KENNEDY, B. H., see PHILIP GARMAN ..... (Sci. Note, Feb.) 157
KING, HERMAN L. and RAY HUTSON, Further Studies on Control of Red-Banded Leaf Roller with Parathion.... (Sci. Note, April) 398
KING, W. V. and J. B. GAHAN, Failure of DDT to Control House Flies ..... (June) 405
KNOWLTON, G. F., see S. L. WOOD ..... (Sci. Note, Dec.) 989
KULASH, WALTER M., Further Tests with Soil Insecticides to Control Southern Corn Rootworm ..... (Sci. Note, June) 558
KULASH, WALTER M., The Green Peach Aphid as a Pest of Tobacco ..... (Aug.) 677
KULASH, WALTER M., Soil Insecticides for Control of Cutworms ..... (Sci. Note, Aug.) 705
KULASH, W. M. and CLARENCE H. HANSON, Insect Pests of Alfalfa in North Carolina... ..... (Sci. Note, Aug.) 694

LAAKE, E. W., Chlorinated Hydrocarbon Insecticides for Control of the Horn Fly on Beef Cattle in Kansas and Missouri ..... (Sci. Note, Feb.) 143
LAAKE, E. W., Livestock Parasite Control Investigations and Demonstrations in Brazil. ..... (April) 276
LAAKE, E. W., H. M. BRUNDRETT and O. G. BABCOCK, Screw-Worm Survey in Western United States, 1948 ..... (Sci. Note, Aug.) 684
LAIDLAW, HARRY H., JR., Development of Precision Instruments for Artificial Insemination of Queen Bees ..... (April) 254
LAMB, FRANK C., see A. E. MICHELBACHER.. ..... (Aug.) 666
LANE, JOHN E., see HARRY D. PRATT.. (June) 414
LANGE, W. H., JR., E. C. CARLSON and L. D. LEACH, Seed Treatments for Wireworm Control with Particular Reference to the Use of Lindane ..... (Dec.) 942
LANGFORD, GEORGE S. and ENGEL GILBERT, The Value of Phenyl Ethyl Acetate as an Ingredient in Japanese Beetle Baits ..... (Sci. Note, Feb.) 146
LANGFORD, GEO. S., see ENGEL GILBERT.... ..... (June) 537
LAPLANTE, A. A., JR., Contact Toxicity of Several Formulations of DDT to First Instar Oriental Fruit Moth Larvae.. (Oct.) 786
LARSON, R. E., see LI PENG-FI ..... (Sci. Note, April) 399
LATHROP, F. H., Biology of the Plum Curculio in Maine ..... (Feb.) 12
LAUDANI, H. and F. O. MARZKE, Toxicity of Fabric Insects and Resistance to Washing and Dry Cleaning of Six Chlorinated Hydrocarbon Insecticides ..... (June) 434
LEACH, L. D., see W. H. LANGE, JR... (Dec.) 942
LERAAS, M. A., see J. A. MUNRO..... (April) 318
LIEBERMAN, F. V., see GEORGE E. BOHART.. ..... (June) 519
LILLY, J. H., see J. R. DOGGER..... (Aug.) 663
LINDQUIST, ARTHUR W., see H. E. FAIRCHILD. ..... (June) 410
LINDQUIST, ARTHUR W., see ROBERT A. HOFFMAN ..... (June) 436
LINDQUIST, ARTHUR W., see C. C. DEONIER.. ..... (June) 447
LINDQUIST, ARTHUR W., see A. R. ROTH..... ..... (Dec.) 871
LINDQUIST, ARTHUR W., see ROBERT A. HOFFMAN ..... (Dec.) 891
LINDQUIST, ARTHUR W., see ROBERT A. HOFFMAN ..... (Dec.) 893
LIST, GEORGE M., see J. H. NEWTON.. (April) 346

MADDOCK, DARRELL R., Thrips Infesting Tomatoes and Their Occurrence on Other Hosts ..... (Sci. Note, Feb.) 146
MADSEN, HAROLD F. and ARTHUR D. BORDEN, The Eye-Spotted Bud Moth on Prune in California ..... (Dec.) 915
MANN, H. D., see R. H. CARTER..... (Feb.) 116
MANN, H. D., see R. H. CARTER..... (Feb.) 119
MANN, H. D., see R. H. CARTER..... ..... (Sci. Note, Aug.) 708
MARCH, RALPH B. and ROBERT L. METCALF, Development of Resistance to Organic Insecticides Other than DDT by House Flies ..... (Sci. Note, Dec.) 990
MARCH, RALPH B., see ROBERT L. METCALF.. ..... (Oct.) 721
MARSHALL, D. S., see GEORGE G. GYRISCO.. ..... (April) 311
MARSHALL, D. S., L. D. NEWSOM, GEORGE G. GYRISCO and H. H. SCHWARDT, Control of the Clover Root Borer ..... (April) 315
MARSHALL, G. EDW., Interrelation of Peach Insects and Disease Control at Orleans, Indiana ..... (Oct.) 806
MARZKE, F. O., see H. LAUDANI..... (June) 434
MASON, A. C. and R. D. CHISHOLM, An Ethylene-Dibromide-Chlordan Mixture to Control Soil-Inhabiting Stages of the Japanese Beetle ..... (Aug.) 639
MAXWELL, KENNETH E. and A. F. SWAIN, Tetraethyl Pyrophosphate Dusts ..... (Sci. Note, Oct.) 848
MCBRIDE, O. C., see R. A. FULTON.... (Feb.) 123
MCGOVRAN, E. R., see A. F. SIEVERS..... ..... (Sci. Note, June) 549
MCGREGOR, W. S., Field Tests of Insecticides and Spraying Methods to Control Horn Flies in Dairy Herds ..... (Aug.) 641
MCGREGOR, W. S., see GAINES W. EDDY.... ..... (Sci. Note, June) 547
MCGREGOR, W. S., see GAINES W. EDDY.... ..... (June) 461
MCKAY, K. G., see D. P. FURMAN..... ..... (Sci. Note, Oct.) 842
MEDLER, J. T. and T. R. CHAMBERLIN, Low Pressure Spraying Equipment for Control of Some Forage Insects ..... (April) 239
MEDLER, J. T., see T. R. CHAMBERLIN. (Aug.) 653
MERRILL, L. G., see B. F. DRIGGERS.. (April) 351
METCALF, ROBERT L. and RALPH B. MARCH, Studies of the Mode of Action of Parathion and Its Derivatives and Their Toxicity to Insects ..... (Oct.) 721
METCALF, ROBERT L., see RALPH B. MARCH. ..... (Sci. Note, Dec.) 990
MICHELBACHER, A. E. and W. W. MIDDLEKAUFF, Codling Moth Investigations on the Payne Variety of English Walnut in Northern California ..... (Oct.) 736
MICHELBACHER, A. E. and O. G. BACON, Thrips on Asparagus..... (Sci. Note, Oct.) 849
MICHELBACHER, A. E., W. W. MIDDLEKAUFF, FRANK C. LAMB and N. B. AKESSON, Further Investigation of Control of Tomato Insects in Northern California..... (Aug.) 666
MIDDLEKAUFF, W. W., Control of the Omnivorous Leaf Tier on Flax. (Sci. Note, Oct.) 840
MIDDLEKAUFF, W. W. and A. E. PRITCHARD.

Field Tests to Control the Mite *Penthaleus major* ..... (Sci. Note, Oct.) 852
MIDDLEKAUFF, WOODROW, W. The Omnivorous Leaf Tier in California ..... (Feb.) 35
MIDDLEKAUFF, W. W., see A. E. MICHELBACHER ..... (Aug.) 666
MIDDLEKAUFF, W. W., see A. E. MICHELBACHER ..... (Oct.) 736
MIDDLETON, JOHN T., see R. C. DICKSON ..... (Oct.) 770
MILLER, J. M., see T. E. SNYDER ..... (Obituary, Oct.) 868
MITCHENER, A. V., Chlorinated Camphene, Chlordan, DDT and Calcium Arsenate Compared for Control of the Colorado Potato Beetle ..... (Sci. Note, Feb.) 152
MOORE, RUFUS H., see A. F. SIEVERS ..... (Sci. Note, June) 549
MORENO, IGNACIO, Cotton Insect Control with New Organic Insecticides in Mexico ..... (June) 484
MORTON, F. A., see B. V. TRAVIS ..... (Sci. Note, Aug.) 686
MUMA, MARTIN H., see C. A. SOOTER ..... (Sci. Note, Feb.) 154
MUMA, MARTIN H. and EPHRIAM HIXSON, Effects of Weather, Sanitation and Chlorinated Chemical Residues on House and Stable Fly Populations ..... (April) 231
MUMA, MARTIN H., ROSCOE E. HILL and EPHRIAM HIXSON, Soil Treatment for Corn Rootworm Control ..... (Oct.) 822
MUNRO, J. A., M. A. LERAAS and W. D. NOSTDAHL, Biology and Control of the Sweet Clover Weevil ..... (April) 318
MUNRO, J. A. and R. L. POST, Control of Boxelder Bugs ..... (Sci. Note, Dec.) 994
MUNSON, SAM C., see J. FRANKLIN YEAGER ..... (Dec.) 874

NARDY, R. V., see D. L. COLLINS ..... (Feb.) 110
NARDY, R. V., see D. L. COLLINS ..... (Sci. Note, Feb.) 159
NEISWANDER, R. B., The Grape Mealybug on *Taxus* in Ohio ..... (Feb.) 41
NEISWANDER, R. B., see J. G. RODRIGUEZ ..... (Feb.) 56
NELSON, R. H., see B. D. CHISHOLM ..... (Sci. Note, Feb.) 154
NELSON, R. H., A Laboratory Method for Evaluating DDT Residues (Sci. Note, Feb.) 151
NELSON, R. H., W. A. GERSDORFF and S. I. GERTLER, Toxicity to House Flies of DDT and Two DDT Analogs ... (Sci. Note, Feb.) 158
NEWCOMER, E. J. and F. P. DEAN, Comparative Effectiveness of Orchard Acaricides ..... (Sci. Note, Oct.) 857
NEWCOMER, E. J., see F. W. CARLSON ..... (April) 338
NEWSOM, L. D. and C. E. SMITH, Destruction of Certain Insect Predators by Applications of Insecticides to Control Cotton Pests ..... (Dec.) 904
NEWSOM, L. D., see GEORGE G. GYRISCO ..... (April) 311
NEWSOM, L. D., see D. S. MARSHALL ..... (April) 315
NEWTON, J. H. and GEORGE M. LIST, Codling Moth and Mite Control in 1948 ..... (April) 346
NICKELS, C. B., DDT and Other Insecticides to Control the Pecan Nut Casebearer ..... (April) 357
NICKELS, C. B., Some Minor Insect Pests of Pecan in Texas ..... (Sci. Note. Dec.) 994
NOSTDAHL, W. D., see J. A. MUNRO ..... (April) 318
NOTTINGHAM, EDWARD, see C. C. DEONIER ..... (June) 447

OERTEL, E., Relative Humidity and Temperature Within the Beehive ..... (June) 528
O'NEAL, E. J., see J. R. EYER ..... (Sci. Note, Oct.) 850
O'NEILL, W. J., Pear Psylla Control with Parathion ..... (Aug.) 636
OSBURN, MAX R., Parathion Dust for Control of the Pineapple Mealybug ..... (Sci. Note, June) 557
OSBURN, MAX R., Tests of Parathion for Control of the Little Fire Ant (Sci. Note, June) 542

PANKASKIE, J. E., see PAUL A. DAHM ..... (Sci. Note, Dec.) 987
PARISH, HENRY E., Recent Studies on Life History and Habits of the Ear Tick ..... (June) 416
PARKS, T. H., see C. R. CUTRIGHT ..... (April) 359
PATCH, L. H., see H. O. DEAY ..... (Feb.) 81
PATERSON, A. R., see J. M. GINSBURG ..... (Aug.) 602
PEAIRS, L. M., An Editorial Faux Pas—or Worse ..... (Editorial, Feb.) 161
PEARCE, G. W., see P. J. CHAPMAN ..... (Feb.) 44
PEFFLY, ROBERT L. and JAMES B. GAHAN, Residual Toxicity of DDT Analogs and Related Chlorinated Hydrocarbons to House Flies and Mosquitoes ..... (Feb.) 113
PENG-FI, LI and R. E. LARSON, *Meligethes aeneus* as a Factor in Muskmelon Breeding Program in Pennsylvania (Sci. Note, April) 399
PEPPER, J. H., see ELLSWORTH HASTINGS ..... (Sci. Note, June) 554
PIMENTAL, DAVID, Biology of *Gnathocerus cornutus* ..... (April) 229
PIQUETT, P. G., see R. H. CARTER ..... (Feb.) 119
PIQUETT, P. G., The Effect of Four Commonly Used Synergists on a Synthetic Pyrethroid ..... (Sci Note, Oct.) 841
PLANK, HAROLD K. and ROBERTO FERRER-DELGADO, Permanence of DDT in Powder-Post Beetle Control in Bamboo ..... (Dec.) 963
PLUMMER, C. C. and J. G. SHAW, Toxicity of DDT and Parathion Dusts to the Citrus Blackfly ..... (Sci. Note, Aug.) 708
POLIVKA, J. B., The Use of Fluorescent Pigments in a Study of the Flight of the Japanese Beetle ..... (Oct.) 818
POST, R. L., see J. A. MUNRO ..... (Sci. Note, Dec.) 994
PRATT, HARRY D., JOHN E. LANE and F. C. HARMSTON, New Locality Records for *Allodermanyssus sanguineus*, Vector of Rickettsialpox ..... (June) 414
PRITCHARD, A. E., R. E. BEER and R. G. ROSENSTEIL, The Omnivorous Leaf Tier on Field Grown Cut Flowers in California ..... (Sci. Note, Oct.) 845
PRITCHARD, A. EARL and ROBERT E. BEER, Parathion for Control of Pests of Ornamental and Flowering Plants ..... (April) 372
PRITCHARD, A. E., see W. W. MIDDLEKAUFF ..... (Sci. Note, Oct.) 852

QUISENBERRY, B. F., see C. M. GJULLIN ..... (Feb.) 100

RADELEFF, R. D., see R. H. CARTER ..... (Feb.) 116
RALEY, T. G., see BRYANT E. REES ..... (Aug.) 586
RASKI, DEWEY J. and ARTHUR D. BORDEN, A

Green Fruitworm, *Orthosia hibisci*, Attacking Apricots.....(Oct.) 754
RAWLINS, W. A., ROBERT STAPLES and A. C. DAVIS, Wireworm Control with Several Insecticides Introduced into the Soil..(April) 326
REED, J. P., see J. M. GINSBURG.....(Aug.) 602
REES, RRYANT, E., T. G. RALEY and EDWARD D. DAVIS, Pre-Hatching Treatment of Irrigated Lands with DDT, Dichlorodiphenyl Dichloroethane, and Gamma-Benzene Hexachloride for Control of Flood-Water Mosquitoes.....(Aug.) 586
RICHARDSON, HENRY H., Methyl Bromide Fumigation of Imported Orchid Plants.....(Aug.) 650
RIGNEY, J. A., see CLYDE F. SMITH....(Aug.) 618
RIHERD, PAUL T., Chlorinated Insecticides for Control of Cowpea Insects.....(Sci. Note, Dec.) 991
RIHERD, PAUL T., DDT and Benzene Hexachloride to Control Southern Corn Rootworm.....(Sci. Note, Dec.) 992
RINGS, ROY W., Red-Banded Leaf Roller Injury to Peaches and Plums.....(Sci. Note, Aug.) 701
RISTICH, S. S. and H. H. SCHWARDT, Biology and Control of the Seed-Corn Maggot on Beans in New York.....(Feb.) 77
RITCHER, P. O., New Materials for Control of Strawberry Crown Borer..(Sci. Note, Oct.) 838
ROBINSON, J. H., see B. V. TRAVIS.....(Sci. Note, Aug.) 686
RODRIGUEZ, J. G. and R. B. NEISWANDER, The Effect of Soil Soluble Salts and Cultural Practices on Mite Populations on Hothouse Tomatoes.....(Feb.) 56
ROGERS, E. E., see ALFRED H. YEOMANS.....(Aug.) 591
ROHWER, S. A., An Appraisal of Entomology and Entomologists.....(Feb.) 1
Presidential Address, Sixtieth Annual Meeting, American Association of Economic Entomologists
RONEY, J. N., Bermuda Grass Seed Insects in Arizona.....(Sci. Note, June) 555
ROSENSTEIL, R. G., Life History and Control of the Orange Tortrix in Oregon.....(Feb.) 37
ROSENSTEIL, R. G., see A. E. PRITCHARD.....(Sci. Note, Oct.) 845
ROTH, A. R. and ARTHUR W. LINDQUIST, Comparative Effectiveness of DDT, Methoxychlor and Dichlorodiphenyl Dichloroethane Against House Flies and Aëdes Floodwater Mosquitoes.....(Dec.) 871
ROTH, ADOLPH R., see ROBERT A. HOFFMAN.....(Dec.) 893
ROUSSEL, J. S. and J. C. GAINES, Comparison of Calcium Arsenates Alone and Mixed with Organic Insecticides for Cotton Insect Control.....(Sci. Note, June) 551

SCHMITT, JOHN B., see GEORGE W. BARBER.....(April) 287
SCHMITT, JOHN B., see GEORGE W. BARBER.....(Sci. Note, Oct.) 844
SCHOPP, RALPH, see FRANK G. HINMAN.(Oct.) 746
SCHREAD, JOHN C., A New Chlorinated Insecticide for Control of Turf-Inhabiting Insects.....(June) 499
SCHREAD, JOHN C., Residual Activity of Insecticides in Control of Turf Insects..(April) 383
SCHWARDT, H. H., Diagnosis and Control of Mange in Dairy Cattle.....(June) 444
SCHWARDT, H. H., see S. S. RISTICH...(Feb.) 77
SCHWARDT, H. H., see GEORGE G. GYRISCO.....(April) 311
SCHWARDT, H. H., see H. TASHIRO....(April) 269
SCHWARDT, H. H., see D. S. MARSHALL.(April) 315
SCOTT, DAVID, B., JR., Effects of Parathion on Plants.....(Oct.) 782
SHAW, J. C., see R. H. CARTER.....(Feb.) 119
SHAW, J. G., see C. C. PLUMMER.....(Sci. Note, Aug.) 708
SHAW, F. R. and G. D. BUTLER, The Effects of DDT, Benzene Hexachloride and Parathion on the Honey Bee..(Sci. Note, Oct.) 855
SHELFORD, V. E., Termite Treatment with Aqueous Solution of Chlordan.....(Sci. Note, June) 541
SHIRCK, F. H., see J. R. DOUGLASS....(Feb.) 68
SIEGLER, E. H. and S. I. GERTLER, Laboratory Tests of Some Aliphatic N-Substituted p-Nitrobenzamides Against the Codling Moth.....(Sci. Note, Feb.) 151
SIEVERS, A. F., W. ANDREW ARCHER, RUFUS H. MOORE and E. R. MCGOVRAN, Insecticidal Tests of Plants from Tropical America.....(Sci. Note, June) 549
SLEEPER, D. A., see C. M. GJULLIN.....(Sci. Note, April) 392
SMALLMAN, B. N., Residual Action of Low Vapour Fumigants.....(Aug.) 596
SMITH, C. E., see L. D. NEWSOM.....(Dec.) 904
SMITH, C. E., see E. H. FLOYD.....(Dec.) 908
SMITH, CARROLL N. and DOUGLASS BURNETT, JR., Effectiveness of Repellents Applied to Clothing for Protection Against Salt-Marsh Mosquitoes.....(June) 439
SMITH, CARROLL N., M. M. COLE, ELMER A. JONES and J. C. CLARK, Investigations of Tick Repellents at Camp Bullis, Texas, 1948.....(Oct.) 716
SMITH, CARROLL N., see MOSES M. COLE.....(Dec.) 880
SMITH, CHARLES L. and DELL E. GATES, Country-Wide Control of Horn Fly with DDT.....(Sci. Note, Oct.) 847
SMITH, CHARLES L., see R. H. CARTER (Feb.) 116
SMITH, CLYDE F., IVAN D. JONES and J. A. RIGNEY, Effect of Insecticides on the Flavor of Peaches.....(Aug.) 618
SMITH, FLOYD F., see R. H. CARTER...(Feb.) 119
SMITH, GORDON F. and A. F. GEIB, Control of Aëdes Mosquitoes by Direct Introduction of DDT into Irrigation Waters.....(Sci. Note, Oct.) 835
SMITH, HARRY S. and STANLEY E. FLANDERS, Recent Introductions of Entomophagous Insects into California....(Sci. Note, Dec.) 995
SMITH, RAY F. and WILLIAM W. ALLEN, Chemical Control of the Alfalfa Caterpillar in California.....(June) 487
SNAPP, OLIVER I., New Insecticides for Plum Curculio Control—Second Report...(Feb.) 7
SNELLING, R. O., see H. O. DEAY.....(Feb.) 81
SNYDER, T. E. and J. M. MILLER, Andrew Delmar Hopkins, 1857–1948.....(Obituary, Oct.) 868
SOOTER, C. A. and MARTIN H. MUMA, Rye Jointworm Doing Damage in Nebraska.....(Sci. Note, Feb.) 154
SPEERS, C. F., see H. A. JAYNES.....(Apr.) 221

STAFFORD, E. M., Control of Olive Scale in California with Parathion.....(Aug.) 656
STAFFORD, E. M., see DWIGHT F. BARNES .....(Feb.) 48
STAPLES, ROBERT, see W. A. RAWLINS.(April) 326
STEINHAUS, EDWARD A. and CLARENCE G. THOMPSON—Preliminary Field Tests Using a Polyhedrosis Virus to Control the Alfalfa Caterpillar.....(April) 301
STITT, L. L., Host-Plant Sources of *Lygus* spp. Infesting the Alfalfa Seed Crop in Southern Arizona and Southeastern California.(Feb.) 93
STITT, LLOYD L. and JAMES EVANSON, Phytotoxicity and Off-Quality of Vegetables Grown in Soil Treated with Insecticides... .....(Aug.) 614
STONE, P. V., see T. E. BRONSON..... .....(Sci. Note, Feb.) 156
SULLIVAN, W. N., see R. A. FULTON...(Feb.) 123
SULLIVAN, W. N., see C. C. DEONIER..(June) 447
SUMMERS, FRANCIS M., Resistance to Basic Lead Arsenate by the Peach Twig Borer Within a Small Area in Central California. .....(Feb.) 22
SWAIN, A. F., see KENNETH E. MAXWELL... .....(Sci. Note, Oct.) 848
SWANK, GEORGE R., Methyl Bromide Fumigation of Commodities for the Destruction of White-Fringed Beetle Eggs.....(Oct.) 733
SWEETMAN, HARVEY L., see A. F. BURGESS... .....(June) 420
SWIFT, J. E., see R. C. DICKSON.....(Oct.) 770
SYLVESTER, EDWARD S., Aphid Control Experiment on Potatoes in California with Special Reference to the Selective Action of DDT Dusts.....(Oct.) 766

TASCHENBERG, E. F., Laboratory Evaluation of Larvicides for Red-Banded Leaf Roller and Notes on Injury to Grapes.....(Aug.) 629
TASHIRO, H. and H. H. SCHWARDT, Biology of the Major Species of Horse Flies of Central New York.....(April) 269
TAYLOR, EARL J., A Life History Study of *Nabis alternatus*.....(Sci. Note, Dec.) 991
TAYLOR, EDGAR A., see ORIN A. HILLS.(Dec.) 897
TELFORD, H. S., Need for Standard Formulations.....(Editorial, April) 403
THOMPSON, CLARENCE G., see EDWARD A. STEINHAUS.....(April) 301
THURSTON, RICHARD, see JOHN H. HAWKINS.. .....(April) 306
TRAVIS, B. V., F. A. MORTON, HOWARD A. JONES and J. H. ROBINSON, The More Effective Mosquito Repellents Tested at the Orlando, Fla., Laboratory, 1942–47..... .....(Sci. Note, Aug.) 686
TRAVIS, B. V., Studies of Mosquito and Other Biting-Insect Problems in Alaska...(June) 451
TRAVIS, B. V., see F. S. BLANTON.....(Feb.) 106
TURNER, NEELY, Control of Aphids on Tobacco.....(Sci. Note, June) 561
TURNER, NEELY and NANCY WOODRUFF, Effect of Formulations of DDT, and of Chlordan on Potato Flea Beetles and Yield.(June) 470
TURNER, NEELY, see NANCY WOODRUFF..... .....(April) 243
TURNER, NEELY, see NANCY WOODRUFF..... .....(April) 249

VANCE, A. M., Some Physiological Relationships of the Female European Corn Borer Moth in Controlled Environments...(June) 474
VAN LEEUWEN, E. R., The Use of DDT for the Control of Chestnut Weevils.....(Oct.) 825
VINCENT, R. H., see ENGEL GILBERT..(June) 537

WADE, J. S., George Ware Barber (1890–1948) .....(Obituary, Feb.) 163
WADLEY, F. M., An Application of Double Sampling in Evaluating Insect Infestations.....(Sci. Note, April) 396
WALKER, R. L., L. C. FIFE and FLOYD F. BONDY, Comparative Effectiveness of Chlorinated Hydrocarbons against the Boll Weevil.....(Sci. Note, Aug.) 685
WALKER, R. L., see J. G. CONKLIN..... .....(Sci. Note, Feb.) 153
WALKER, R. L., see L. C. FIFE..... .....(Sci. Note, Aug.) 682
WEAVER, NEVIN, The Toxicity of Certain Organic Insecticides to Honey Bees....(Dec.) 973
WEINMAN, CARL J., see C. W. KEARNS.(Feb.) 127
WEINMAN, CARL J. and GEORGE C. DECKER, Chlorinated Hydrocarbon Insecticides Used Alone and in Combinations for Grasshopper Control.....(Feb.) 135
WELLS, R. W., see R. H. CARTER.....(Feb.) 116
WENE, GEORGE P., Control of the Cowpea Curculio.....(Sci. Note, Oct.) 856
WENE, GEORGE P., Control of the Suckfly on Tomato.....(Sci. Note, Dec.) 983
WENE, GEORGE P., Control of Turnip Aphids .....(Feb.) 73
WHEELER, ELLSWORTH H., see JOHN S. BAILEY.....(Oct.) 774
WHITEHEAD, F. E., Effect on the Dark Rice Field Mosquito of Feeding on Cows Treated with DDT.....(Sci. Note, April) 393
WILCOX, J., A. F. HOWLAND and ROY E. CAMPBELL, Insecticides for the Control of Thrips on Onions Grown for Seed in Southern California.....(Dec.) 920
WILLIAMS, L. L., JR., The Entomologist and the International Health Program..... .....(Editorial, Aug.) 710
WILSON, CHARLES S., Piperonyl Butoxide, Piperonyl Cyclonene and Pyrethrum Applied to Selected Parts of Individual Flies.. .....(June) 423
WILSON, C. S., see F. S. BLANTON.....(Feb.) 106
WILSON, M. CURTIS, Organic Insecticides to Control Alfalfa Insects.....(June) 496
WOLCOTT, GEORGE N., The Most Effective Termite Repellents.....(April) 273
WOOD, S. L. and G. F. KNOWLTON, *Diachus auratus*, a New Strawberry Pest in Utah... .....(Sci. Note, Dec.) 989
WOODRUFF, NANCY and NEELY TURNER, Effect of Dispersing and Spreading Agents on Toxicity of DDT Spray Powders...(April) 243
WOODRUFF, NANCY and NEELY TURNER, Concentrated DDT Spray Powders.....(April) 249
WOODRUFF, NANCY, see NEELY TURNER..... .....(June) 470
WOODISDE, A. M., The Tobacco Stalk Borer in Western Mexico.....(Feb.) 63
WOODSIDE, A. M., Test of Insecticides for Control of Cat-Facing on Peaches.....(April) 335

YEAGER, J. FRANKLIN and SAM C. MUNSON, Relationship between Knockdown and Survival Time for DDT-Poisoned Flies and Roaches.....(Dec.) 874

YEOMANS, ALFRED H., E. E. ROGERS and W. H. BALL, Deposition of Aerosol Particles.. .....(Aug.) 591
YETTER, W. P., see H. W. ALLEN..... .....(Sci. Note, June) 540
YOUNG, M. T. and G. L. GARRISON, Aphid Collections at Tallulah, Louisiana, from 1941 to 1947.....(Sci. Note, Dec.) 993
YORK, G. T., Grasshopper Population Reduced by Gulls.....(Sci. Note, Oct.) 837